**UNI-T UT387A**

# UNI-T UT387A Digital Stud Finder Wall Scanner Sensor User Manual

Model: UT387A

## 1. Introduction

The UNI-T UT387A is a versatile digital wall scanner designed for detecting hidden objects behind walls. It can accurately locate metals (ferrous and non-ferrous), live electrical wires, and wooden beams, making it an essential tool for construction, renovation, and home improvement projects. This manual provides detailed instructions for the safe and effective use of your UT387A device.




*Figure 1: Front view of the UNI-T UT387A Digital Stud Finder. This image shows the device's display, mode selection button, and branding.*

## 2. Safety Information

Please read and understand all safety warnings and operating instructions before using this product. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Always assume that live electrical wires are present behind walls. Exercise extreme caution when drilling or cutting into walls.

- Do not rely solely on the detection results of this device. Use other available information, such as building plans, when performing work.
- Keep the device dry and clean. Do not expose it to moisture or extreme temperatures.
- Do not attempt to open or modify the device. Repairs should only be performed by qualified personnel.
- Dispose of batteries properly according to local regulations.

## 3. Package Contents

Verify that all items are present in your package:

- UNI-T UT387A Digital Stud Finder
- 9V Battery (6F22)
- English User Manual

## 4. Product Overview

The UT387A features a clear display and intuitive controls for easy operation. It offers multiple scanning modes to detect various materials.




*Figure 2: Side view of the UNI-T UT387A, highlighting its ergonomic design and side grip.*

**Key Features:**

- **Scanning Modes:** StudScan and ThickScan for different wall thicknesses.
- **Auto Calibration:** Ensures accurate readings.
- **Buzzer Indication:** Audible alert upon detection.
- **LED Alarm:** Visual alert for detected objects.
- **Auto Power Off:** Conserves battery life.
- **Low Battery Indication:** Alerts when battery replacement is needed.
- **Error Calibration Alarm:** Notifies of calibration issues.

## 5. Setup

### 5.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open it.
3. Insert one 9V (6F22) battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

### 5.2 Initial Calibration

The UT387A features automatic calibration. To ensure accurate readings:

1. Place the device flat against the wall surface where you intend to scan. Ensure there are no objects or your hand directly under the sensor area.
2. Press and hold the power button. The device will automatically calibrate.
3. Wait for the calibration to complete (usually indicated by a "CAL OK" message on the display and a short beep).
4. Keep the device flat against the wall during the entire scanning process.

## 6. Operating Instructions

The UT387A offers two primary scanning modes: StudScan and ThickScan.

### 6.1 Selecting a Scanning Mode

After turning on the device and completing initial calibration, use the mode selection button (usually located below the display) to toggle between "StudScan" and "ThickScan" modes. The selected mode will be indicated on the display.

### 6.2 StudScan Mode

This mode is designed for detecting wooden studs and metal objects behind standard drywall up to a depth of approximately 19mm (0.75 inches).

1. Select "StudScan" mode.
2. Place the device flat against the wall and calibrate as described in Section 5.2.
3. Slowly slide the device horizontally across the wall surface.
4. When an object is detected, the display will show indicators, and the buzzer will sound. The LED alarm may also activate.
5. Mark the edges of the detected object. Continue scanning past the object to confirm its width.

### 6.3 ThickScan Mode

This mode is suitable for detecting deeper objects, including metals and live wires, behind thicker walls or materials. It can detect ferrous metals up to 28.5mm (1.12 inches) and non-ferrous metals/copper conductors up to 50mm (1.97 inches).

1. Select "ThickScan" mode.
2. Place the device flat against the wall and calibrate.
3. Slowly slide the device horizontally across the wall surface.
4. Pay attention to the display indicators, buzzer, and LED alarm for object detection.
5. Note that detection depth can vary based on wall material, moisture content, and object size.

**UT387 series wall scanners are great tools designed for construction and home improvement sector. These scanners can pick up hidden objects behind walls, such as metals, live electrical wires, and wood. UT387A is designed for dry wall, but it can also effectively scan hardwood flooring, plywood, and coated wooden walls. It has two scanning modes, these are used for scanning walls of different thickness.**

| Specifications | UT387A | | UT387B |
|---|---|---|---|
| Certificates | CE, UKCA | | |
| | Maximum detectable distance | | |
| Ferrous metals | 19mm (StudScan) | 28.5mm (ThickScan) | 80mm |
| Non-ferrous metals | 19mm (StudScan) | 28.5mm (ThickScan) | 80mm |
| Copper conductors (live) | 50mm (StudScan) | 50mm (ThickScan) | 50mm |
| Wood | 19mm | 28.5mm | 20mm |
| Scanning modes | 2 | | 1 |
| Auto calibration | √ | | |
| User calibration | | | √ |
| Silent mode | | | √ |

| Features |
|---|
| Buzzer indication |
| Auto power off |
| Error calibration alarm |
| LED alarm |
| Low battery indication |

| Characteristics | |
|---|---|
| Standard accessories | Battery, English manual |
| Power | 9V battery (6F22) |
| Product size | UT387A: 170 x 70.5 x 38.9mm; UT387B: 220 x 83 x 30mm |
| Product net weight | UT387A: 153g; UT387B: 274g |
| Standard individual packing | Gift box, carrying bag (UT387B) |
| Standard quantity per carton | 10pcs |
| Standard carton measurement | 295 x 290 x 205mm |
| Standard carton gross weight | 4.5kg |





UT387A



UT387B

*Figure 3: The UNI-T UT387A being used to scan a wall, demonstrating a typical operating scenario.*

### 6.4 Detecting Live Wires

Both StudScan and ThickScan modes can detect live AC wires. The device will typically provide a distinct indication (e.g., a specific icon, a different beep pattern, or a red LED) when a live wire is detected. Always proceed with extreme caution when live wires are indicated.

## 7. Maintenance

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a dry, dust-free environment when not in use. Remove the battery if storing for extended periods to prevent leakage.
- **Battery Replacement:** Replace the 9V battery when the low battery indicator appears on the display.

## 8. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Device does not turn on. | Dead or incorrectly installed battery. | Check battery polarity or replace with a new 9V battery. |
| Inaccurate readings or false positives. | Improper calibration, high moisture in wall, or nearby interference. | Recalibrate the device on a clear section of the wall. Ensure the wall is dry. Avoid scanning near large metal objects or strong electromagnetic fields. |
| "Error Calibration" alarm. | Device moved during calibration or placed over an object. | Turn off the device, then turn it back on and recalibrate on a clear, flat section of the wall. |
| Cannot detect objects. | Incorrect mode selected, object too deep, or battery low. | Ensure the correct scanning mode (StudScan/ThickScan) is selected. Check battery level. Objects may be beyond the maximum detection depth. |

## 9. Specifications

| Feature | Detail |
|---|---|
| Model | UT387A |
| Power | 9V battery (6F22) |
| StudScan Depth | Up to 19mm (0.75 inches) |
| ThickScan Ferrous Metal Depth | Up to 28.5mm (1.12 inches) |
| ThickScan Non-Ferrous Metal/Copper Conductor Depth | Up to 50mm (1.97 inches) |
| Product Dimensions | 170mm x 70.5mm x 38.9mm (6.69 x 2.78 x 1.53 inches) |
| Product Net Weight | 153g (0.34 lbs) |
| Certifications | CE, UKCA |
| Material | Acrylonitrile Butadiene Styrene (ABS) |

## 10. Warranty Information

The UNI-T UT387A Digital Stud Finder comes with a**1-Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, accident, modification, unauthorized repair, or neglect. Please retain your proof of purchase for warranty claims.

## 11. Support

For technical support, troubleshooting assistance, or warranty inquiries, please contact UNI-T customer service. Refer to the contact information provided on the UNI-T official website or your purchase documentation.

You can also visit the official UNI-T store on Amazon for product information and updates:UNI-T Amazon Store

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### Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Anonymous

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**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question